

## PROJECT DESCRIPTION

<b>PROJECT:</b>	Fiber Federal Credit Union	
<b>LOCATION:</b>	Kelso, Washington	
<b>DESIGN TEAM:</b>	<i>Architect:</i>	Collins/Jones Architects
	<i>Structural Engineer:</i>	Kramer Gehlen Engineers
	<i>Geotechnical Engineer:</i>	EMCON
<b>CONTRACTOR:</b>	Hollinger Construction, Inc.	



### DESCRIPTION:

The site is located near the Cowlitz River in the Kelso-Longview area and is underlain by soft and compressible alluvial soils. To mitigate foundation settlements, the geotechnical engineer recommended:

1. Overexcavation to depths of 10' to 12' below foundation grade and replacement with crushed rock
2. Short aggregate piers (RAP's).

The Geopier® System were selected as a Value Engineering alternative. The system not only created a significant project savings, but also eliminated the dewatering and risks associated with the overexcavation approach. The Rammed Aggregate Pier® (RAP) were typically placed on about an 8' center-to-center spacing along the stem walls and extended to a depth of 12' to 14' beneath foundation grade. The RAP elements extended through the upper compressible silty layer to the underlying medium dense sands.

The Geopier approach significantly enhanced the project schedule. The installation of 53 RAP elements was completed in only one day on-site.